

Historic, Archive Document

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Agricultural Libraries Information Notes

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Microfilm Partnership to Preserve Early USDA Pubs

In a cooperative arrangement with Congressional Information Service, Inc. (CIS), the National Agricultural Library is taking another major step in its ongoing efforts to preserve our national collection of historical agricultural reports, studies, and other materials.

As reported in previous NAL publications, including *ALIN*, NAL has developed and implemented a variety of measures to ensure "the survival of the world's most important body of recorded agricultural knowledge."

Under the direction of Alan Fusonie, head of NAL's Special Collections section, a CIS camera will be installed at NAL to microfilm hundreds of rare 19th and early 20th century federal documents that are literally disintegrating as they sit on library shelves. According to Fusonie, the need to preserve these important and heavily-used materials is acute.



photo: J. Swab
Alan Fusonie, Head, NAL Special Collections, examines a book being filmed by CIS camera operator, Diana Hawk.

CIS is no stranger to the preservation of historic documents. In its more than 20 years of existence, this award-winning company has installed cameras to film rare and deteriorating documents at many historic repositories and presidential libraries throughout the country. CIS microfiche eliminate the dual problems of deterioration and limited storage space. The full text of each document is reproduced on silver halide film, in negative polarity, at reduction ratios of 20:1 to 24:1 depending on the format of the original publication. The microfiche produced and distributed by CIS from

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...and more

NAL materials will ensure that these historic agricultural documents will be available to researchers for another 500 years.

The filming of the documents at NAL is part of a major publishing project that, when completed in 1995, will provide total access to documents listed in the *Checklist of United States Public Documents, 1789-1909*. Published in 1911, the 1909 *Checklist* was the only systematic effort to provide a complete register of all documents published by the U.S. Government during its first 120 years.

While the material covered in the *Checklist* is a basic element of the public record of the federal government, the information in the documents has been extremely difficult for researchers to locate and use. No detailed index to *Checklist* documents was ever created and few libraries have more than a small fraction of the documents cited in the *Checklist*. Those that are available are often in very poor condition and the majority are currently in urgent need of preservation.

The *CIS Index to U.S. Executive Branch Documents, 1789-1909*, with companion microfiche collection, gives researchers unprecedented access to millions of pages of facts and figures generated by virtually every executive agency in existence during the time period covered by the *Checklist*. The collection will be published in 6 parts.

Parts 1 and 2, covering the Treasury Department, Commerce and Labor Department, and War Department, are already available and have been received with critical acclaim. "CIS *U.S. Executive Branch Documents, 1789-1909* is the right idea at the right time. The original material is starting to deteriorate and find its way into rare book collections where it is hard to use," said Susan Bekiares, Documents Librarian at the University of Illinois, Urbana-Champaign. "The *Index* will provide long-needed access to these documents."

Part 3 of the project, covering the Interior, Justice, and Labor Departments; Interstate Commerce Commission; and Library of Congress, will be available in fall 1992.

Agriculture Department materials will make up the major portion of documents in Part 4 of the project, which will be issued in 1993.

The Department evolved from a section within the Patent Office for the collection of agricultural statistics. The section, established in 1839, became a separate department in 1862 and a cabinet office in 1889.

Since its inception in 1839, the Department of Agriculture has been unparalleled in its publication and dissemination of invaluable information on all aspects of agriculture. Between 1839 and 1909 the Department issued more than 5,000 reports, studies, circulars, bulletins, and other documents via its 32 divisions, offices, and bureaus in existence during the period spanned by the *Checklist*.

Documents issued by the Agriculture Department in its first 70 years trace the development of the food industry in the U.S. There is a wealth of information on the development and growth of domestic and export markets for U.S. agricultural commodities and the consequent need for improved means of storage, preservation, and shipment. The rise of concern over food safety and purity and initial attempts by the Department of Agriculture to establish food quality standards and regulate the food industry are also well

documented.

The increasing significance of the Agriculture Department parallels the late 19th and early 20th century beginnings of industrial farming and of the agricultural chemical industry, as seen in the development and application of new fertilizers, pesticides, and food preservatives. Scores of documents track the development of new farming methods and the availability of new machinery designed to improve the efficiency and productivity of the agricultural sector.

The collection also provides a detailed look at the development, organization, and rapid expansion of the Agriculture Department, with particular focus on its research mission. The establishment and operation of land-grant colleges and other agricultural education and extension programs are covered in detail.

Users of the collection will find a wide variety of fascinating information, including material on the discovery of the kola nut and its potential use in a soft drink to rival beer, and information on the arrival and spread of the gypsy moth with predictions of its imminent eradication.

According to Steve Daniel, CIS Director of Congressional and Legal Services, "this outstanding collection represents a unique opportunity for librarians to provide access to the rich documentary history of American agriculture. The National Agricultural Library should be commended for its contribution to the success of this project."

The following report updating many NAL activities for the first half of Fiscal Year 1992, was distributed to participants in the USAIN/NAL meeting at the American Library Association Annual Conference in San Francisco, June 30. It is reprinted here with a few minor changes.

Activities of the National Agricultural Library June 1992

Preservation a Key Focus at NAL

In response to increased concern about the condition of the nation's agricultural information maintained at NAL, the library is taking a number of additional preservation steps. A preservation committee was formed to clarify goals and assure resources are available for preservation and access. It will also advise NAL's preservation coordinator on planning and implementing preservation and access programs, including disaster recovery. A preservation plan has been published and a disaster recovery plan has been completed.

NAL Works Closely with Emerging Central European Countries

To build stronger ties between NAL and newly emerging countries in central Europe, NAL sponsored a conference with agricultural librarians from Bulgaria, Czechoslovakia, Hungary, Poland, Romania, and Yugoslavia, in Beltsville,

Maryland, in November 1991. Discussions were held on how NAL and these countries can work together to improve collections of agricultural materials and to share resources. NAL senior managers followed up on the conference with visits to agricultural libraries in Czechoslovakia, Poland, and Hungary earlier this spring. Another conference is scheduled for October in Budapest.

NAL Hosts First International Technology Workshop

In the fall 1991, NAL hosted the first New Technology Workshop sponsored by the International Association of Agricultural Information Specialists (known as IAALD) in Beltsville, Maryland. IAALD is a 700-member body of agricultural information specialists representing over 80 countries. The workshop featured lectures and demonstrations of new information management technologies. Thirty IAALD members attended the workshop.

NAL Provides Access to Visual Information

In order to examine the use of images in information retrieval, a database of 5,000 agricultural images (with an "East-West" theme) is being created, provided to selected test sites, and its use monitored by NAL and the University of Pittsburgh's School of Library & Information Sciences. Copies of each image will be available in multiple resolutions and the study will examine the degree of resolution needed by different user groups. The database will be available on compact disc and through a workstation server mounted on INTERNET. Issues to be considered in the project include image quality and how the public-domain images are used.

Text Digitizing Becomes Fully Operational

The National Agricultural Text Digitizing Project (NATDP) has been established as a fully operational NAL program that seeks to disseminate agricultural knowledge nationwide using CD-ROM technology. NAL began looking at options for upgrading the NATDP system to reflect technology improvements that have occurred since NAL began the project in 1987. The retrieval software package for NATDP, "Windows Personal Librarian," was recently selected.

Food Irradiation Materials Put on CD-ROM

NAL has developed a CD-ROM containing the text of research reports, surveys, and conference proceedings on food irradiation. Page images were scanned into electronic form and bibliographic records were added for 94 non-copyrighted items. The single disc contains 5,100 pages and tests the ease of use on a LaserData, Inc., high-resolution monitor that displays a complete page.

Carver Papers Help in Preservation Experiments at NAL

A microfilm collection of George Washington Carver's written materials from Tuskegee University is the focus of efforts by NAL to test the feasibility of converting microfilm to electronic images that can be accessed by microcomputer. The papers of the famed African-American scientist were optically scanned for this conversion. Once editing and indexing are completed, the papers will be made available on CD-ROM to agricultural and research libraries

worldwide. Libraries will evaluate the effectiveness of this effort for making scientific information more accessible.

Multimedia CD-ROM on Ornamental Horticulture Developed

NAL is developing a multimedia CD-ROM on plants used in home landscaping. The disc is being produced in cooperation with the University of Florida Institute for Food and Agricultural Sciences and Michigan State University Cooperative Extension Service. On the disc, a database of approximately 1,000 plants that can be grown anywhere in the United States will be enhanced by over 1,000 full-color images of plants and hypermedia links among the database, texts, images, and audio. An audio guide to the correct pronunciation of the plants' scientific names and a multimedia overview of the disc will be included on the disc.

CD-ROM Agricultural Reference Library Made Available

An agricultural reference library on CD-ROM, developed with NAL assistance, has been made available worldwide from the Virginia Polytechnic Institute and State University. Containing 75 major collections and handbooks representing 15,000 documents that equal 50,000 pages of information, the disc is called *The National CD-ROM Sampler: An Extension Reference Library*. The disc was developed jointly by NAL, the Extension Service, and the Cooperative Extension Services of Virginia and Minnesota. One feature of the disc is full-color graphics of 20 American song birds with on-screen summaries and recordings of birds' songs.

NAL/NC State Move Ahead with Image Transmission Project

NAL and the North Carolina State University Libraries are investigating the potential for using the National Science Foundation's high speed INTERNET telecommunications system to immediately send digitized page images of requested documents to university libraries. INTERNET connects over 350,000 computer systems worldwide including U.S. universities. Project managers believe this capability could prove invaluable in providing timely nationwide access to information in remote locations.

NAL Participates in Presidential Initiative on Water Quality

NAL's Water Quality Information Center (WQIC) became fully staffed and functional in 1991, and began serving as the focal point of NAL's activities related to water quality. Through WQIC, NAL collaborates with 11 other agencies on USDA's Working Group on Water Quality. The group seeks to solve water quality problems related to agriculture, working with EPA, USGS, and the Fish and Wildlife Service. WQIC is developing an information and referral network linking information providers, non-USDA agencies, environmental organizations, and others. WQIC assists anyone seeking information on water quality issues.

New Research Database Available from NAL

NAL has developed a computer database containing information on research and education grants awarded by the

American Floral Endowment (AFE) since 1961. Printed copies of the database are available from NAL and the database can be accessed through NAL's computer bulletin board ALF (Agricultural Library Forum). The database provides information on AFE research and education grants and access to citations on publications that resulted from AFE grants.

NAL Serves as USDA Grants "Agency Cooperator"

NAL again is serving as a USDA "agency cooperator" for four grants awarded under USDA's 1890 Institution Capacity Building Grants Program for 1991. The purpose of the program is to advance the teaching and research capacity of the 1890 land-grant institutions and Tuskegee University.

Projects covered by the grants are:

- "Improving Education in Agriculture through Information Technology," North Carolina A&T State University.
- "National Sweet Potato Information Center To Enhance Faculty Performance and Student Learning," Tuskegee University.
- "Strengthening Quality of Aquaculture Teaching by Acquiring Library Materials," University of Arkansas at Pine Bluff.
- "Computerized Agricultural Education Delivery Systems and Recruitment Project," Fort Valley State College, Georgia.

NAL Developing World List of Agricultural Serials

NAL, in cooperation with CAB International (CABI), the Food and Agricultural Organization (FAO) of the United Nations, and other international institutions, has developed a database of agricultural serials published throughout the world. The database is called the World List of Agricultural Serials (WLAS). The International Union List of Agricultural Serials, published by CABI in April 1990, is a subset of WLAS, representing all 11,565 serial titles indexed in the major agricultural databases (AGRICOLA, AGRIS, and CAB ABSTRACTS). NAL has released a CD-ROM product, published in January 1992 by Silver-Platter International, that contains the entire WLAS with more than 55,000 entries. Currently, NAL is exploring the possibility of creating a union list containing symbols for key agricultural libraries worldwide. A pilot project with PUDOC—Centre for Agricultural Publications and Documentation (the Netherlands) will be undertaken to identify potential problems with this union listing.

Pesticide Applicator Training Developed with NAL Assistance

NAL, in cooperation with the U.S. Environmental Protection Agency and USDA's Extension Service, is developing a comprehensive collection of bibliographic materials for use in pesticide applicator training and certification. In addition to enhancing the NAL collection, this cooperation has resulted in the creation of two related products: *PEST (Pesticide Education, Safety, and Training)*, a hypermedia database; and a publication, *Pesticide Applicator Training Materials: a Bibliography*.

NAL/Universities Cooperate in State Publications Program

From 1984 through 1991 and continuing into the present, over 34,000 citations for state-produced agricultural publications were added to NAL's AGRICOLA database as a result of the cooperation between land-grant universities and NAL in the NAL/Land-Grant University State Agricultural Publications Program. The program seeks to collect, publicize, and make available publications produced by state experimental stations, extension services, and college agricultural departments.

Library Services for Remote USDA Laboratories Evaluated by NAL

NAL staff and project cooperators from the Shields Library at the University of California at Davis are visiting USDA Agricultural Research Service (ARS) laboratories to determine how to improve library services for USDA scientists. Scientists at 60 remote laboratories have been surveyed. When completed, the evaluation study will: determine the information services needed at remote laboratories and recommend library system training for USDA scientists at these laboratories; provide manuals on library procedures and services for scientists; and recommend computer hardware and software for accessing services from NAL and other information providers.

Rural Information Services Improved

NAL's Rural Information Center, an information service designed to help rural citizens improve their communities, is now accessible by telephone toll-free, 1-800-633-7701. Included with RIC is a new Rural Information Center Health Service, called RICHS, established by NAL and the Department of Health and Human Services in 1990 to provide information on rural health care to communities throughout the nation. Use of the toll-free telephone number was recommended by President Bush's 1990 Rural Economic Development Initiative.

National Aquaculture Information Needs Studied at NAL

NAL's Aquaculture Information Center (AIC) is conducting an evaluation of trends in user needs since 1985, when AIC was established. The study involves an analysis of approximately 4,000 reference requests from 1985 to 1990. Also, reviews are being conducted of the aquaculture information needs of USDA's Extension Service, the National Association of State Aquaculture Coordinators, and a cross-section of aquaculture information professionals serving a variety of users. The study will identify national and regional information needs of the aquaculture industry, identify overlaps in information services provided by the Extension Service and other federal agencies, and establish criteria for an automated tracking system for information requests at State and federal levels.

Plant Genome Information Center Has Busy Inaugural

NAL's newly established Plant Genome Database and Information Center convened a database workshop with experts to discuss the nature, goals, and direction for the

public access database. Participants included database specialists from such organizations as the University of California, Los Alamos National Laboratory, the National Science Foundation, and USDA's Germplasm Resource Information Network. A model database will be available for evaluation by the end of 1992, and it is anticipated that a general database will be available for public access within 3 years.

NAL Supports Midwest Biotechnology Information Center

NAL is cooperating with eight land-grant institutions in the creation of the Midwest Agricultural Biotechnology Information Center. Representatives from the institutions met at NAL in January 1991 to discuss cooperative collection building and networking. Committees on collection development and telecommunications and networking were formed.

Demand Increases for Biotechnology Information Center Services

NAL's Biotechnology Information Center (BIC) continues to work with the Cooperative State Research Service and the National Biological Impact Assessment Program's (NBIAP) electronic bulletin board. Monthly, BIC updates the files for meetings and for publications, books, and reports in the bulletin board. BIC also has participated with NBIAP in developing a biomonitoring database. A prototype of the database will be released on CD-ROM and will include published articles and Federal and State agency reports covering field release studies and projects involving genetically modified organisms.

NAL Participates in Sustainable Agriculture Network

Information on sustainable agriculture became available in 1991 through a network linking 14 universities, government agencies, businesses, and non-profit organizations. NAL participates in this network through its Alternative Farming Systems Information Center. The network will improve the flow of information about sustainable agriculture by traditional means, such as publications, as well as by new technologies, such as computer networking.

NAL Works with Historically Black Colleges/Universities

NAL continues to strengthen its ties with Historically Black Colleges and Universities (HBCU) through increased cooperation and assistance to programs in agriculture, home economics, and allied sciences. Within the last year, NAL staff visited Tuskegee University and three 1890 land-grant universities to discuss with administrators, faculty, and staff, the preservation of special collections, improving access to agricultural information via electronic linkages and traditional methods, and how the HBCU institutions can more effectively utilize NAL's services, programs, and products.

ISIS Is on Schedule

Development and installation of ISIS, NAL's minicomputer-based integrated library system for managing the library's collection, is proceeding. The system allows patrons to search the collection not only by author, title, call

number, and subject, but also by keyword. ISIS contains approximately 470,000 records. In 1991, cataloging, serials control, acquisitions, and name and subject authority control modules were installed in ISIS, and the circulation module was readied for installation. A hardware upgrade to the Hewlett Packard 3000/900 was installed in April.

USAIN Launches AGRICOLA Users Survey

The United States Agricultural Information Network (USAIN), with NAL cooperation and support, has initiated the AGRICOLA Users Survey, a market research project on the NAL bibliographic database. The goals of the project are to find out the perceived value of various features of AGRICOLA, the ways in which AGRICOLA is being used, which features of AGRICOLA are being used, and users' perceptions of AGRICOLA compared to competitive databases.

Gift and Exchange Project Aids Efforts to Build Collection

NAL launched a program in 1991 to investigate and improve the library's gift and exchange agreements. The program involves use of the NAL serials system to identify those agreements still in force and those that have lapsed. The program uses database management systems to sort and store the information into meaningful reports. The reports aid collection development and give NAL staff who visit foreign institutions background information concerning exchange agreements.

Unified Agricultural Thesaurus Project Moves Ahead

NAL is leading an international effort to produce a Unified Agricultural Thesaurus. The project will improve worldwide access to agricultural information through an international thesaurus system. Project managers expect that the thesaurus will not only be helpful for information storage in and retrieval from the three major agricultural databases (AGRICOLA, AGRIS, and CAB Abstracts), but will benefit the producers and users of other agricultural and related databases as well.

Computer-Aided Cataloging Instruction Developed by NAL

NAL is continuing work on a computer-aided cataloging instruction project started in 1990. With the assistance of a grant from the Council on Library Resources and an award from the Apple Library of Tomorrow, NAL created CatTutor, a "hypertext tutorial for training catalogers." During 1990 and 1991, CatTutor was tested by library school students and novice and expert catalogers. Users found CatTutor to have great potential as a tool for training catalogers.

— Brian Norris



Take Pride in America

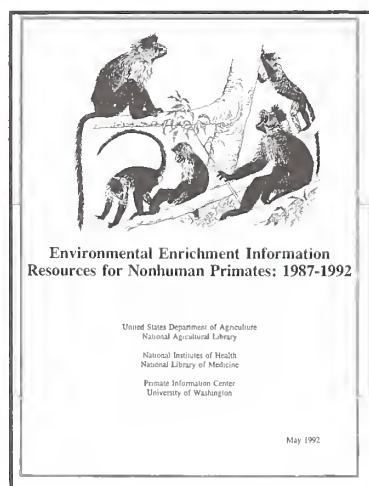
★ *Plant a Tree* ★



**Animal
Welfare**

Primate Welfare Resources Guide Available from AWIC

In response to the 1991 Animal and Plant Health Inspection Service ruling that facilities that use nonhuman primates must provide them with environmental enhancement to promote their psychological well-being, the Animal Welfare Information Center (AWIC) has produced *Environmental Enrichment Information Resources for Nonhuman Primates: 1987-1992*. The guide was developed to aid primate researchers, veterinarians, regulators, and exhibitors.



The 105-page publication includes a bibliographic section which is subdivided into general sections on topics ranging from enrichment techniques and devices, through training, behavior, breeding, well-being assessment, to facility design and development. There are also species-specific sections on chimpanzees, gorillas, orangutans, gibbons, baboons, macaques, marmosets, tamarins, cebid mon-

keys, lemurs, and others. Separate sections include monographs, serials, and pre-1987 bibliographies. The Information Resources section contains names, addresses, phone numbers, and functions of 32 organizations that are actively involved in nonhuman primate environmental enrichment and can provide further information to users.

According to Jean Larson, AWIC Coordinator, "Congress is especially concerned about the environmental quality of captive nonhuman primates, enough so to put it into the 1985 amendments to the Animal Welfare Act. The Animal Welfare Information Center has as one of its Congressional mandates to develop and publish information related to issues in the Animal Welfare Act. This guide is part of that effort."

The guide is a collaborative effort between AWIC, U.S. Public Health Service, and the Primate Information Center at the University of Washington, and it was printed by the Office for Protection from Research Risks of the National

Institutes of Health.

To obtain a copy send a self-addressed label with the request to:

*Animal Welfare Information Center
National Agricultural Library, Room 205
10301 Baltimore Boulevard
Beltsville, MD 20705-2351*

—Michael D. Kreger



Aquaculture

Aquaculture Research Directory Now Available

A directory of 139 U.S. and Puerto Rican institutions involved in aquaculture research is now available from NAL's Aquaculture Information Center. Compiled by Eileen M. McVey, the *Directory of Research Institutions in Aquaculture* lists addresses of the institutions and the type of research being conducted at each.

"This directory is for aquaculture scientists and researchers, students, government agencies, and others interested in current areas of research in aquaculture in the United States," McVey said. "We hope it will encourage increased cooperation between institutions doing research in aquaculture."

McVey compiled the directory from information provided by the U.S. Fish and Wildlife Service, the National Sea Grant College Program, and the American Fisheries Society. "While a good reference," she said, "this list is not comprehensive, and some ongoing aquaculture research programs may have been missed inadvertently." McVey also cautioned that because of changing funding for aquaculture research, some listed programs may have altered their research directions since the directory was printed.

Copies of the directory are available by sending a request



with a self-addressed mailing label, to:
*Aquaculture Information Center
National Agricultural Library
10301 Baltimore Boulevard
Beltsville, Maryland 20705-2351*

Aquaculture Center Staff Networks with International Groups at AQUA '92



Staff from the Aquaculture Information Center (AIC) attended the international conference, AQUA'92, in Orlando, Florida, May 22-26. This annual conference and exposition included the triennial sponsorship of the National Shellfisheries Association, the Fish Culture Section of the American Fisheries Society, and the World Aquaculture Society which represents memberships of the Asian Aquaculture Society and the European Aquaculture Society as well as aquaculture interests in the United States.

Approximately 2,000 aquaculturists, biologists, and others attended the conference. Thirty-five technical sessions and a plenary poster session of over 100 papers provided information on research for aquaculturists and commercial industry representatives around the world. Approximately 100 international exhibitors provided booths.

In November of 1991, the AIC assisted with the development of a database to track the approximately 460 abstracts presented at the

conference. In addition, the AIC supported the USDA Science and Education poster session, attended technical sessions, and staffed the Aquaculture Information Center exhibit booth during the trade show. David Coleman, Head, Science and Technology Department, Hamilton Library, University of Hawaii, assisted AIC staff with staffing the exhibit.

Many people stopped by the exhibit to pick up publications, query staff, and utilize the Aquatic Science and Fisheries Abstracts database on CD-ROM. Dr. Thomas Hoffer, Franklin County Chronicle, Florida, interviewed Eileen McVey and Deborah Hanfman, Coordinator, for a series of articles that he is writing on aquaculture. More than 6,000 publications were distributed by the Center during the three days.

In addition, a demonstration version of a "hypertext system" on floppy disk was shown to conference participants at the exhibit and referred to during technical sessions. The final disk will be completed in late summer and represents 16 scientific papers presented at a state-of-the-art recirculating systems workshop. The project is funded by the Sea Grant Program, U.S. Department of Commerce; Cooperative State Research Service, U.S. Department of Agriculture; and Fish and Wildlife Service, U.S. Department of the Interior. Dr. Ron Malone, Louisiana State University, provided the engineering expertise.

—Eileen McVey



photos: Courtesy AIC

(Top) AIC Coordinator Deborah Hanfman being interviewed by Dr. Thomas Hoffer of the **Franklin County Chronicle** at the Aquaculture Information Center booth.

(Above) Dr. Joan Mitchell of the National Science Foundation (L) discusses cross-promotional publications with Eileen McVey of AIC (R).



Alternative Farming Systems

AFSIC Notes

AFSIC Notes is a series of brief publications intended for a non-technical audience. Issues in the series are now available on request from the Alternative Farming Systems Information Center. The recently published No. 3, entitled "Agriculture and the Environment," (7 p.) calls attention to the publication of the 1991 USDA *Yearbook of Agriculture* of the same name. It also reflects the rise of interest in alternative farming systems, fueled by concerns about the environmental impacts of some agricultural practices.

"Integrated Pest Management, Biological Control: Natural Enemies," No. 2, (3 p.), is another recent issue. The IPM approach is receiving renewed attention these days, as farmers look for ways to use fewer pesticides. *AFSIC Notes* No. 1 is "Adopting Sustainable Alternatives," (4 p.). It offers an introduction to the benefits and problems of transition to a more sustainable farming system.

To request copies write to:

AFSIC, Room 111

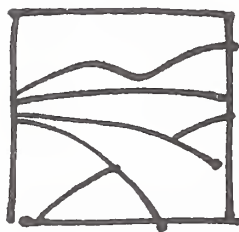
National Agricultural Library

10301 Baltimore Boulevard

Beltsville, MD 20705-2351

Or telephone: 301-504-6559.

— Jayne MacLean



Rural Information Center

New Rural Development Bibliographies Available

The latest in a series of bibliographies on rural development are now available from the National Agricultural Library. From "Tourism and Outdoor Recreation" to "Rural Education" to "Rural Entrepreneurship and Small Business Development," nine new bibliographies have been produced by NAL's Rural Information Center (RIC). The bibliographies contain citations of books, articles, videotapes, and other materials related to specific areas of

rural development. The citations were taken from NAL's AGRICOLA bibliographic database, and most of the identified materials are available in the NAL collection.

"With the bibliographies, we are identifying information that rural leaders can use to learn more about areas of rural development that concern them," said Patricia John, RIC Coordinator.

In addition to tourism, education, and entrepreneurship, other bibliography subjects are "Health Care in Rural America," "Rural America's Elderly," "Information Access in Rural America," "Rural Industrialization," "Agricultural and Farmer Cooperatives," and "Crime in Rural America."

Copies are available by sending a self-addressed label, with a request specifying the desired bibliographies, to:

Rural Information Center, Room 304

National Agricultural Library

10301 Baltimore Boulevard

Beltsville, Maryland 20705-2351



News Notes

NAL Increases Dramatically the Number of Abstracts in AGRICOLA

In an effort to serve its users better, the National Agricultural Library has undertaken to increase the number of article abstracts included in its bibliographic database, AGRICOLA.

Of the nearly 70,000 articles related to agriculture that have been added to AGRICOLA since October 1992, abstracts have been included for almost 23,000. This represents a 127-percent increase over the same period in 1991.

"Abstracts allow our users to find the most useful articles for their particular needs without having to locate and read each and every article on a subject being researched," said Shirley Edwards, head of NAL's Indexing Branch. "This can save a person hours in research time. It is another service NAL has added to improve the accessibility of the NAL collection to its many users."

AGRICOLA (*AGRICultural OnLine Access*) contains the bibliographic records of almost 3 million articles, books, journals, monographs, theses, patents, software programs, audiovisual materials, and technical reports related to agriculture. It is available online or on CD-ROM from commercial vendors.





Staff Update

Pindell Coordinates Information Programs



photo: J. Swab

Alvetta Pindell

For those readers who have not already had a chance to meet and get to know her, *ALIN* introduces Alvetta Pindell, who joined the NAL staff in October 1991 as the Coordinator of Information Programs. Her duties include oversight of several sections of the Reference and User Services Branch: the Reference Section, the Educational Programs Unit, the D.C. Reference Center, and the U.S. National Arboretum Library. In addition to supervision and manage-

ment of these sections, Ms. Pindell has headed several special projects in her first year at NAL, including the User Fee Task Force which she coordinates with serving on the American Library Association Fee for Service Committee, the library-wide project on Cost-Reduction of DIALOG Searches, and aspects of NAL's preservation program including representing the library on the Federal Library and Information Center Committee (FLICC) Preservation Working Group. She is also working with other NAL staff to improve services and utilization, such as with Peggy Beavers on the services to USDA field libraries and with Karl Schneider on utilization of ALF, the library's electronic bulletin board.

Ms. Pindell came to NAL from the National Oceanic and Atmospheric Administration (NOAA) Library where she had worked for 3 years as the Collection Development librarian, followed by contracting work and ending as head of the Contract Operations Branch. She worked for 12 years with the U.S. Navy at the Annapolis Branch of the David Taylor Research Center, where she was a reference and supervisory librarian. Ms. Pindell began working for the government at the age of sixteen and was in the Federal Junior Fellowship Program. She earned her MSLS at Catholic University and bachelors degrees in sociology and

Latin American studies at American University.

In her non-government time Ms. Pindell enjoys cooking and collecting cookbooks, doing church work, and reading. She is married to Dennis Pindell, who works for the Defense Department at Fort Meade, Maryland. They live in Bowie.

When asked about her experiences in the first year at NAL, Ms. Pindell spoke of the "challenge of keeping up quality and depth of services in a time of budget constraints." With a cheerful laugh she indicated she was enjoying the challenge.

— Joseph N. Swab

Makuch Heads Water Quality Info Center

On June 15, 1992, Dr. Joseph Makuch joined the staff of the National Agricultural Library as Coordinator of the Water Quality Information Center. He assumed responsibilities formerly held by Dr. Janice Kemp who has become NAL's Assistant to the Associate Director for Public Services.

Dr. Makuch will provide traditional library and information services related to water quality and will coordinate NAL programs, database management, dissemination of information, outreach, and other activities with all of the USDA agencies having water quality programs and with national and international programs.

Dr. Makuch earned his Ph.D. at the Pennsylvania State University in Agricultural Education with an emphasis on instructional systems. From 1988 to 1991 he was a graduate assistant in the Agricultural and Biological Engineering Department at Penn State, designing computer-assisted instruction on water quality subjects. From 1991 until coming to NAL, he held a post-doctoral research appointment in agricultural and biological engineering, working on extension water quality programs and developing in-service training for extension agents in water quality.

From 1985 to 1988 Dr. Makuch worked on the Pennsylvania aspects of the Chesapeake Bay Program. He worked with the agricultural community regarding the connection between agricultural practices and water quality, showing ways to change those practices to improve groundwater — including drinking water — and the water that eventually flows into the Bay.

Dr. Makuch also earned his Masters in forest resources



photo: J. Swab

Joseph Makuch

at Penn State, and his B.S. in natural resource conservation at the University of Connecticut. He has authored and co-authored many publications in his fields of interest.

A native of Connecticut, Dr. Makuch is now enjoying exploring the outdoors and cultural interests of the D.C. area with his wife, Yvonne. He said he is "looking forward to the challenge of helping the Water Quality Information Center play a meaningful role in protecting water quality."

—Joseph N. Swab

NAL Staff Volunteer In Remedial Program at Beltsville Academic Center

by Eileen McVey
Points of Light Coordinator, NAL
Aquaculture Information Center, NAL

This past academic year ten NAL staff members volunteered on a regular basis to work with elementary school children at the Beltsville Academic Center in Maryland. The Beltsville Academic Center, a public school with a magnet program, is located only a few minutes from the library. The school has an enrollment of 900 students transported from all over Prince George's County. The children come from a culturally diverse background and enter an intense academic program which features such challenging subjects as Latin in the fourth grade. Mrs. Margaret Schmidt heads the reading laboratory and coordinates an extensive and successful volunteer program of adult professionals who assist the students with remedial work in



photo: J. Swab

Ruth Finnblade



photo: J. Swab

Ann Palmes

reading and math. At specific times throughout the year she provides a comprehensive orientation to volunteers in the program.

The ten NAL staff members participating were Ruth Finnblade, Ann Palmes, Ellen Pletsch, Ruth Wertman, and Judith Winesdorfer of the Acquisitions and Serials Branch, Anita Speight of the Database Administration Branch, Grace Sines of the Library Automation Branch, Deborah Hanfman of the Information Centers Branch, and Sherry Gibson and Stacy Ernst of the Document Delivery Services Branch. (Ernst is no longer with NAL.) Other participants included staff from the Beltsville Agricultural Research Center.

The ten NAL volunteers truly enjoyed their brief time (approximately one hour weekly) with these young people in this "Points of Light" program. "Their help as science-oriented USDA employees can make a real difference in boosting basic academic skills, preparing students for scientific studies in high school, and promoting interest in careers in the agricultural sciences," says Mrs. Schmidt, whose program was recently featured on a local television news show.

Deborah Hanfman, Coordinator of NAL's Aquaculture Information Center, says, "In some small way, I feel that I'm helping these young children enhance their reading and math skills and their self-esteem through one-on-one tutoring. Over the years, the Aquaculture Information Center considerably improved its service to clients through dedicated efforts of numerous volunteers with diversified skills. Aquaculture staff know how valuable volunteer service can be to a program."

Anita Speight, Leader of NAL's Current Awareness Literature Service, says her time spent has been both "worthwhile and enjoyable and surprisingly easy to do." She finds it is an energizing break from her busy schedule.

This program is flexible and designed to accommodate busy NAL professionals who cannot volunteer regularly due to travel or project responsibilities. Some employees pool their contribution and volunteer biweekly. The program also provides opportunities



photo: E. McVey

Ruth Finnblade, NAL volunteer from the acquisitions branch, helps a Beltsville Academic Center student work on reading skill development.



photo: J. Swab

Ellen Pletsch



photo: J. Swab

Ruth Wertman



photo: J. Swab

Judith Winesdorfer



photo: J. Swab

Anita Speight



photo: J. Swab

Grace Sines



photo: J. Swab

Deborah Hanfman



photo: J. Swab

Sherry Gibson



photo: J. Swab

Eileen McVey

for those volunteers who do not wish to work directly with the students but are good at organizing files and materials. (Perfect activities for librarians!)

The Beltsville Academic Center volunteer program supports USDA's Partnership in Education Program as well as President Bush's Points of Light initiative. Mrs. Schmidt hopes that more NAL and Agricultural Research Staff take advantage of this opportunity since her program always needs new volunteers.

Additionally, because many National Agricultural Library staff do not live in the Beltsville area, this program gives them an opportunity to represent NAL at the community level. NAL is fortunate to have staff that provide such a positive image for USDA. NAL staff or other ALIN readers who would like more information on the program can contact NAL's Points of Light Coordinator, Eileen McVey at 504-5558.

About the Volunteers

Ruth Finblade is a library technician in the Gift and Exchange (G&E) Unit of the Acquisitions/Serials Branch (A/SB). She handles tracking of G&E serial publications including surplus and gaps, and the distribution of Government Printing Office publications received by NAL.

Ann Palmes is the secretary for A/SB.

Ellen Pletsch is the library's Collection Development Librarian. In addition to selecting materials for acquisition she develops policy, coordinates cooperative collection development activities, and oversees blanket orders.

Ruth Wertman is a technical information specialist, biological sciences in A/SB, and selects materials for the collections.

Judith Winesdorfer is the lead library technician in the Fiscal Unit of A/SB.

Anita Speight is a supervisory technical information specialist, biological sciences, in the Database Administration Branch, where she is the leader of NAL's Current Awareness Literature Service (CALS).

Grace Sines is a supervisory computer specialist in the Library Automation Branch. For several years she has been the library's microcomputer coordinator, and her responsibilities recently were expanded to coordinate all end-user support and lead the information systems end-user group.

Deborah Hanfman is a technical information specialist, biological sciences, and is Coordinator of NAL's Aquaculture Information Center.

Sherry Gibson is a library technician in the Search Unit of the Document Delivery Services Branch and is a member of the Federal Women's Program Committee.

About the Coordinator

NAL's Points of Light Program Coordinator, Eileen McVey is a biological sciences librarian in the Aquaculture Information Center (AIC), responsible for reference and information services. In her 3 years at AIC she has been the principal author of several publications including: *National Profile of Information Services in Aquaculture*; *Directory of Aquaculture Research Institutions*; *Financial Sources for Aquaculture*; *Audiovisuals for Aquaculture*; *Practical Aquaculture Literature II*; and many *Quick Bibliographies*. She is currently leading phase II of AIC's evaluation study.



USAIN Elects Officers; Meeting Update

The United States Agricultural Information Network (USAIN) elected new members to its Executive Council this past spring. The new president is the newly elected individual-at-large, Richard Rohrer, Director of the St. Paul Campus Libraries, University of Minnesota. New land-grant institutional representatives are Brice Hobrock, Dean of Libraries, Kansas State University, and Martha Bowman, Director of Libraries, University of Missouri-Columbia. Doug Jones, University of Arizona, was re-elected Secretary/Treasurer. Other current Executive Council members include: Julia Peterson (USAIN Past President), Cargill, Inc., Sonia Meurer, Nabisco Foods Group, and Noreen Alldredge, Montana State University. Robyn Frank serves as the NAL Liaison to USAIN.

USAIN update meetings were held at the Special Libraries Association and the American Library Association conferences held in San Francisco in June. At ALA, it was decided that the USAIN meeting time for the ALA

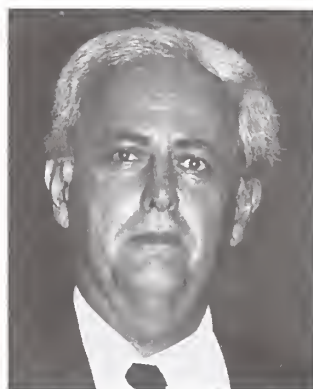


photo: J. Swab
Richard Rohrer



photo: J. Swab
Brice Hobrock



photo courtesy of M. Bowman
Martha Bowman



photo: J. Swab
Doug Jones



photo: J. Swab
Sonia Meurer



photo courtesy of N. Alldredge
Noreen Alldredge



photo courtesy of R. Frank

Julia Peterson and Robyn Frank,

in addition to their USAIN activities, are members of the John Cotton Dana Awards judges panel, and are pictured here at the judging meeting in New York in February of this year.

mid-winter meeting in Denver will be changed from Tuesday afternoon to Friday afternoon (at the beginning of the conference). It is hoped that this new time slot will allow more participation by USAIN members and other interested individuals.

The next USAIN program meeting will be held in the spring 1993. The theme of the meeting will be rural development. The exact time and location have not been announced.

— Robyn Frank



Special Events

Livestock Breeding as a Fine Art



As the summer of 1992 came to an end, the American Minor Breeds Conservancy and the National Agricultural Library were celebrating the success of two major exhibits they had sponsored. The first, *The Art of American Livestock Breeding*, had opened at NAL in the fall of 1991 and gone on to the Washington County Museum in Hagerstown, Maryland, the Palmer Museum at Pennsylvania State University, and the Carnegie Museum in Pittsburgh, Pennsylvania, where it closed at the end of August 1992. Photographs from events associated with this exhibit at NAL appear on this and the following pages.

Because of the demand for the first exhibit, which was scheduled for a one-year tour, the American Minor Breeds Conservancy and the National Agricultural Library assembled the second exhibit entitled, *Our Livestock Heritage*. This exhibition includes 60 images of livestock. These paintings, etchings, and rare books by J.F. Herring, Thomas Sidney Cooper, George Garrard, and others, span more than a century of livestock breed documentation and portraiture. Included are etchings of cattle, horses, sheep, swine, and poultry. Many are portraits of a favorite, or top-performing animal, perhaps even a

prize winner. The materials have been loaned to the exhibit by collectors in both the United States and England.

The exhibition opened June 12, 1992, at Wake Forest University during the annual meetings of The American Minor Breeds Conservancy and ALFHAM. From there it moved to Ohio State University at Wooster. Other venues include: The North American Livestock Show, Louisville, Kentucky; Michigan State University; and The Historical Society of Nantucket. Each venue provides an opportunity to show the importance of livestock breeds and the contributions made by livestock breeders. Public events will be hosted at each stop to present the role of minor breeds in the conservation of genetic diversity.

This exhibit speaks to the cultural and historical importance of traditional breeds of livestock. Though we are a nation descended from farmers, few of us can identify a breed of livestock. Knowledge of this valuable part of our heritage is nearly lost, along with the genetic diversity these breeds represent. *This exhibit will be of interest to animal scientists, farmers, historians, artists, art collectors, and anyone who appreciates animals.*

The American Minor Breeds Conservancy is a non-profit member organization which studies, promotes, and conserves endangered and rare livestock breeds. In addition to their historical and esthetic value, these traditional breeds represent a treasure in the genetic diversity they represent. This resource must be conserved to meet the unknown needs of the future.

For further information contact:

American Minor Breeds Conservancy
P.O. Box 477
Pittsboro, NC 27312
(919) 542-5704

R. John Dawes, Curator
Huntingdon Farm
Box 152
Alexandria, PA 16611
(814) 669-4847

— American Minor Breeds Conservancy



photos: J. Swab

On the opening day of "The Art of American Livestock Breeding," live rare breeds exhibited on NAL's front lawn included the Norwegian Fjord Pony and Scottish Highland long-haired cattle.



photo: J. Swab

Joseph H. Howard
Director, NAL



photo: J. Swab

Ann M. Veneman
Deputy Secretary, USDA



photo: J. Swab

Senator Nancy Landon
Kassebaum (of Kansas),
and Board Member, AMBC



photo: J. Swab

Robert Melland
Administrator, APHIS

Remarks Concerning the Two Livestock Art Exhibits

by Alan E. Fusonie
Head, Special Collections, NAL

An attention getting exhibit involving a variety of unique documents (such as rare books and photographs), valuable original oil paintings, and live animals, with an attractive exhibit structure design and exhibition catalog requires time, specialized skills, subject expertise, cooperation, and financial support. Such an endeavor also poses certain risks in the area of security and conservation.

Always keeping this curatorial reality in mind, it is a pleasure for me to join you today to open the exhibition, *Our Livestock Heritage*, and to share my experience with the previous traveling exhibition, *The Art of American Livestock Breeding*.

From the beginning, working with Don Bixby, Executive Director, American Minor Breeds Conservancy, and John

Dawes, Curator of the Exhibition, was a timely, exciting, and rewarding experience. We all shared a positive bond with agriculture, animal husbandry at its best, and the planet earth. Critically important was the exhibit design, construction planning, and implementation by Terry Gibson, Jefferson Patterson Park and Museum, and John Poliszuk, a private professional exhibit consultant. All of us working together with dedicated purpose, high motivation, and cost-effective creativity overcame the less than ideal exhibition environment and problems.

The Art of American Livestock Breeding exhibition tour began at the National Agricultural Library in Beltsville, Maryland, where the USDA Beltsville Agricultural Research Center and the Library together make up one of the world's most modern and effective agricultural research programs. The spacious lobby of the Library, augmented by the special construction of attractive temporary exhibit structures, easily handled a dedication crowd of three to four hundred people in an agricultural setting, with low crime, easy access, and plenty of parking area; it was an excellent



photo: J. Swab

Iona and Steven Joseph, Specialists in 19th Century livestock art and owners of Iona Antiques, London, England, loaned several paintings to *Art of American Livestock Breeding*.



photo: J. Swab

Dr. David Lincicome, retired scientist and visiting scholar at NAL, is seen here with rare Cotswold (foreground) and Tunis (background) sheep he loaned to the exhibit opening.



photo: J. Swab

Essex Finney
Director, BARC, USDA



photo: J. Swab

Donald E. Bixby
Executive Director, AMBC



photo: J. Swab

R. John Dawes
Huntingdon Farm, PA



photo: J. Swab

Wayne D. Rasmussen,
Historian, USDA Emeritus

public relations opportunity.

As it turned out, the exhibition of about 50 oil paintings by some of the most famous artists of the last 150 years visually linked some of today's modern breeds with their ancestors.

The selected animal art paintings were tastefully displayed and complimented by a rare book display entitled, "Centuries of Animal Breeding Illustrated" and a hand-out bibliography, *The History and Use of Old Livestock Breeds*, with Introduction by Don Bixby.

Art is a truly vital communication medium for civilization. Throughout our history, agriculture and the rural landscape have been the subjects of many an artist's brush. This is particularly true in England and the United States where the artist journeyed throughout the countryside with sketchbook in hand, depicting the wooded forests, mountains, fields, farm life, and farm animals. Sometimes the owners of domesticated animals, wishing to stimulate interest in their stock, pressured the commissioned artists to exaggerate cer-

tain features. Thomas Bewick (1753-1828) the noted restorer of wood engraving in England in 1798 had a personal experience with this practice:

After I had made my drawings from the fat sheep, I soon saw that they were not approved, but that they were to be made like certain paintings shown to me. I observed to my employer that the paintings bore no resemblance to the animals whose figures I had made my drawings from; and that I would not alter mine to suit the paintings that were shown to me;...my journey, as far as concerned these fat cattle makers, ended in nothing. I objected to put lumps of fat here and there where I could not see it, at least not in so exaggerated a way as on the painting before me; so I got my labor for my trouble. Many of the animals were, during this rage for fat cattle, fed up to as great a weight and bulk as it was possible for feeding to make them; but this was not enough; they were to be figured monstrously fat before the owners of them could be pleased. Painters were found who were quite subservient to this guidance, and nothing else



photo: J. Swab

Dominique chickens, the symbol of the American Minor Breeds Conservancy, were among the rare animals at the exhibit opening.



photo: J. Swab

Tom Hartsock of the Department of Animal Science, University of Maryland, holds an Ossabaw Island piglet.



photo: J. Swab

Dan Sherman

Exec. Dir., Associates of NAL



photo: J. Swab

Alan E. Fusonie

Head, Special Collections, NAL

would satisfy. Many of these paintings will mark the times, and, by the exaggerated productions of the artists, serve to be laughed at when the folly and the self-interested motives which gave birth to them are done away. [*Memoir of Thomas Bewick* (Newcastle-on-Tyne and London, 1862) pp. 183-4.]

As Bewick shows us, an artist could refuse to go along with the craze for indiscriminate fattening on canvas.

From early plant illustrations carved in stone, to illustrated New World economic crops such as corn and red peppers in Fuch's *Historia Stirpum* (1542), to the Swiss Artist, Karl Bodmer's 1833 paintings of "a Blackfoot Indian on Horse-Back" or "Indians Hunting the Bison," to Mark Catsby's painting of flora and fauna in his *Natural History of the Carolinas, Florida, and the Bahamas* (1731-43), to the horse painting reproduced in John Stuart Skinner's *American Turf Register and Sporting Magazine*, we experience the power and importance of the early artist's brush in documenting visually our early agricultural history.

Between 1880 and 1920, the Department of Agriculture hired over 50 art illustrators who produced over 7,000 technically accurate water color drawings and descriptions for use in publications, bulletins, circulars and annual reports. The art work of Deborah G. Passmore (1840-1911), Wilhelm Heinrick Prestele (1836-1895), and Charles Valentine Riley (1843-1895) reflect the quality of publicly funded and publicly available art. These artists created attractive and accurate drawings and descriptions to benefit users of USDA publications. USDA hired art illustrator James Montgomery Flag to maximize the impact of public oriented educational posters as seen in his, "Your Forest—Your Fault—Your Loss." and "Yours in Trust—We Must Protect It From Fire."

And so, as USDA today faces the Conservation oriented 1990's, art exhibitions like *The Art of American Livestock Breeding* and *Our Livestock Heritage* provide a wonderful outreach opportunity steeped in culture, tradition, history, animal science, and the environment. In spite of recessionary times, the American

Minor Breeds Conservancy, the Associates of NAL, Inc., Friends of Agricultural Research, and the National Agricultural Library came together rather quickly. These cooperators felt the sense of urgent relevancy and the potential impact of the exhibits. The public is increasingly concerned about the impact of agriculture on the environment and human health.

The Art of American Livestock Breeding included paintings of cattle, horses, sheep, swine, and poultry loaned by art collectors in the United States and England. Viewers saw significant works by famous artists: for example, Jaimie Wyeth's "Winter Pig," Leavey Lucas' "Prancing Colt," Wm. Henry Davis' "Two Prize Rams," and Leonard King's "Two Year Old Mule."

Although we have descended from a nation of farmers, most of us today know more about the location and layout of the nearby Safeway or Giant store than we do about farming practices and the importance of different livestock breeds. Most people today have no idea that nearly 100 farm animal breeds are in danger of extinction. In a pre-exhibit opening interview with the *Washington Post* (Sept 13, 1991), John Dawes focused on this livestock art exhibition as an educational way to "raise the alarm generally for these breeds, and specifically to find sponsors for some of them."

On opening day, September 13, 1991, the NAL Lobby was filled to capacity, with a diverse audience of cattle farmers, small farmers, artists, agricultural historians, scientists, editors, ordinary people. Senator Nancy Kassebaum of Kansas had just finished her thoughtful and moving remarks. Fresh smells from the heated finger food and drinks filled the air along with lively sound from a strolling musical group. The planners finally allowed themselves a sense of relief and satisfaction. The press releases, brochures, special invitations, mailings, radio spots, and special public service video for television really did create interest in an important exhibition and memorable opening.

[Individuals in photographs on the top of pages 14 to 16 were speakers at the opening of *The Art of American Livestock Breeding* at NAL.]



photo: J. Swab

Music by Manuel S. Bobenreith's Strolling Trio and refreshments at the opening of *The Art of American Livestock Breeding* were sponsored by The Associates of NAL, Inc., Friends of Agricultural Research—Beltsville, and The American Minor Breeds Conservancy.

THE LIST OF SCIENTIFIC MAGAZINES PUBLISHED BY THE INSTITUTE FOR SCIENTIFIC AND TECHNICAL INFORMATION
IN AGRICULTURE

| Magazine | Number of volumes per year | Number of pages | Yearly subscription in US\$ | |
|--|----------------------------------|--------------------|-----------------------------|----------|
| | | | including postage Europe | overseas |
| Rostlinná výroba (Plant Production) | 12 | 96 | 108,- | 112,- |
| Živočišná výroba (Animal Production) | 12 | 96 | 108,- | 112,- |
| Zemědělská ekonomika (Agricultural Economics) | 12 | 96 | 108,- | 112,- |
| Lesnictví (Forestry) | 12 | 96 | 108,- | 112,- |
| Veterinární medicína (Veterinary Medicine) | 12 | 64 | 84,- | 88,- |
| Zemědělská technika (Agricultural Engineering) | 12 | 64 | 84,- | 88,- |
| Ochrana rostlin (Plant Protection) | 4 | 80 | 32,- | 34,- |
| Zahradnictví (Horticulture) | 4 | 80 | 32,- | 34,- |
| Potravinářské vědy (Food Sciences) | 4 | 80 | 32,- | 34,- |
| Genetika šlechtění (Genetics and Breeding) | 4 | 96 | 36,- | 38,- |
| Půdoznalectví a meliorace (Soil Science and Amelioration) | 2 | 80 | 16,- | 17,- |
| Sociologie zemědělství (Sociology of Agriculture) | 2 | 80 | 16,- | 17,- |
| Scientia agriculturae bohemoslovaca (all in English) | 4 | 96 | 36,- | 38,- |

Twenty per cent of papers are published in English, the other papers are in Czech or Slovak and they contain long English summaries (ca. 1 page). The number of English-written articles should be larger in future.

Would you kindly send your orders for our journals to the address of our institute and subscription fees to this account:
Komerční banka, Praha 2 (CSFR), account no. 32035-021/0100.

Our address:

Ústav vědeckotechnických informací pro zemědělství, Slezská 7, 126 02 Praha 2, ČSFR



WITH AFFECTION TO THE
NATIONAL AGRICULTURAL LIBRARY
FROM JORNADA EXPERIMENTAL RANGE
LAS CRUCES, N.M. - 1992

The above is a reproduction of a framed photograph presented to the National Agricultural Library by the scientific staff of the Jornada Experimental Range, Las Cruces, New Mexico. The letter on page 19 conveyed the gift to the Library and describes its subject.

Czechoslovakia Offers Agricultural Documents

The Institute for Scientific and Technical Information in Agriculture of the Government of Czechoslovakia has a number of scientific magazines related to agriculture available to libraries, organizations, and individuals in the United States for a subscription fee. [See list on page 17.]

Approximately 20-40 percent of these materials are published in English. Detailed English summaries are included with those materials published in the Czech or Slovak language. Officials at the institute expect the number of English language articles to increase in the near future.

The magazines available and their subscription rates are listed on the accompanying table.

To order, write to: Institute for Scientific and Technical Information in Agriculture, Ustav vedeckotechnických informací pro zemědělství, Slezská 7, 126 02 Praha 2, CSFR. Send payments to this account: Account no. 32035-021/0100, Komerční banka, Praha 2, CSFR.



TARGET Center to Open

Named in a USDA-wide contest earlier this year, the TARGET Center is an information center to assist disabled USDA employees and their supervisors. The TARGET Center will open in late October in USDA's South Building on the first floor between the second and third wings. The acronym "TARGET" stands for Technology Accessible Resources Give Employment Today. The center will provide information resources and a technology demonstration facility of computers and peripherals adapted to the needs of disabled employees. Center staff will provide outreach training and consulting services to agency managers, supervisors, and staff at headquarters and field offices.

For additional information, contact Ophelia Falls, TARGET Center Director, at 202-690-0443 (Voice/TDD).



United States
Department of
Agriculture

Agricultural
Research
Service

Southern Plains Area
Jornada Experimental Range

Box 30003, NMSU, Dept. 3JER
Las Cruces, NM 88003-0003
FAX No. (505) 646-5889

August 11, 1992

Joseph Howard, Director
National Agricultural Library
10301 Baltimore Boulevard
Beltsville, MD 20705-2351

Dear Mr. Howard:

We at the Jornada Experimental Range appreciate the assistance we have received from the staff at the National Agricultural Library. As an arid land research center in a relatively remote location we are dependant upon the access to information that you provide. Your staff provides this information in a very enthusiastic and professional manner. It is clear that the people at the National Agricultural Library are an important part of our research team.

As a token of our appreciation, we would like to present to the staff of the National Agricultural Library the enclosed photograph. This photograph was taken in December, 1924, and shows J. D. Shoeller, and an assistant, operating a Hill Pantograph in the blackgrama grassland that was once common on the Jornada Range. The Hill Pantograph is an instrument that was used by researchers to map vegetative cover. Changes in plant cover were compared to various grazing treatments and climatic conditions. The information gathered by this and other techniques form the basis for recommendations of grazing management in the Northern Chihuahuan Desert.

Sincerely,

KRIS HAVSTAD
Research Leader

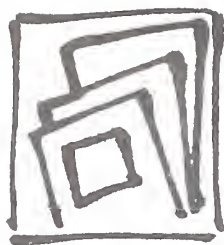
JERRY BARROW, SCIENTIST
Plant Physiologist

ED FREDRICKSON
Range Animal Scientist

DEAN ANDERSON
Range Scientist

RICK ESTELL, SCIENTIST
Animal Scientist

ROBERT GIBBENS
Plant Ecologist



New Serials Received at NAL

Advances in Carbohydrate Analysis. London, England; Greenwich, CT: JAI Press. Annual. Vol. 1 (1991)-
QD320.A38

Annual Report / S.C. Department of Agriculture. [Columbia]: The Department. Annual. 1981-1982-
S111.D46

Annual Survey of Manufactures. Statistics for Industry Groups and Industries (including Capital Expenditures, Inventories and Supplemental Labor, Fuel, and Electric Energy Costs). Washington, DC: U.S. Dept. of Commerce, Bureau of the Census: For sale by Supt. of Docs., U.S. G.P.O. Annual. 1986-
HD9721.A56

Biotechnology Citation Index [Computer File]. Philadelphia, PA: Institute for Scientific Information. Bimonthly. Jul./Aug. 1991-
Z7914.R33B57

Branch Lines / Faculty of Forestry, the University of British Columbia. Vancouver: The Faculty. Three times a year. Vol. 1, no. 1 (Sept. 1990)-
SD14.B8B72

Carbohydrate Polymers. London [England]: Applied Science Publishers. Eight issues yearly. Vol. 1, no. 1 (Sept. 1981)-
QD320.C35

Current Opinion in Structural Biology. London: Current Biology. Bimonthly. Vol. 1, no. 1 (Feb. 1991)-
QH506.C86

The Directory of Women Entrepreneurs. Atlanta, GA: Wind River Publications. Annual. [1988]-
HD2346.U5D58

Horticultural Research in Canada / the Canadian Horticultural Council = La recherche horticole au Canada / le Conseil canadien de l'horticulture. [Nepean, Ontario]: The Council = Le Conseil. Annual. 1989-
SB317.5.A57

ICRISAT Report. Andhra Pradesh, India: International Crops Research Institute for the Semi-arid Tropics. Annual. 1990-
SB111.A2I55

ILCA ... Annual Report and Programme Highlights. Addis Ababa, Ethiopia: International Livestock Centre for Africa.

Annual. 1990-
SF83.A43I5

In the Anacostia Watershed. Rockville, MD: Interstate Commission on the Potomac River Basin. Quarterly. Vol. 1, no. 1 (Summer 1988)-
TD225.A72I5

International Agricultural Development. [Crowborough, East Sussex, England: Pharos Pub. Services]. Six no. a year. [Vol. 1, no. 1] (Nov./Dec. 1980)-
S3.I57

Loess Letter. Lower Hutt, N.Z.: Published by DSIR Soil Bureau on behalf of the Western Pacific Working Group of the INQUA Loess Commission. Semiannual. No. 1 (Apr. 1979)-
QE579.L63

Loess Letter. Supplement. Waterloo, Ontario: Loess Letter. Irregular. No. 1 (Oct. 1983)-
QE579.L63 Suppl.

Macromolecular Reports. New York, NY: M. Dekker. Three issues yearly. Vol. A28, suppl. 1 (Apr. 1991)-
QD471.A1J62 Suppl.

National Survey, Conservation Tillage Practices / Prepared by the Conservation Tillage Information Center. Ft. Wayne, IN: The Center. Annual. 1982-
S604.N38

Nature Genetics. New York, NY: Nature Pub. Co. Monthly. Vol. 1, no. 1 (Apr. 1992)-
QH426.N37

OFCOR, Comparative Study: Special Series on the Organization and Management of On-Farm Client-Oriented Research (OFCOR). The Hague, Netherlands: International Service for National Agricultural Research. No. 1- [1988]-
S540.O53O33

Statistical yearbook ... of the Netherlands Antilles. Willemstad: Centraal Bureau voor de Statistiek. Annual. 1981-
HA920.N4A3

Technical Report. Ottawa: Economic Council of Canada. No. 1- 1980-
HC111.T42

Treatise on Adhesion and Adhesives. New York: M. Dekker. Irregular. Vol. 1- 1967-
TP968.P35

Trends in Pharmacological Sciences. Cambridge, UK: Elsevier Publications. Monthly. Vol. 1 (Apr. 1979)-
RM1.T77

World Energy and Nuclear Directory: Organizations and Research Activities in Atomic and Non-Atomic Energy. Harlow, Essex, U.K.: Longman; Detroit, MI: Distributed in the

USA and Canada by Gale Research. Irregular. 1st ed. (1990)-

TJ163.165.W673

Urban Horticulture Help Notes / Cooperative Extension, University of California. Berkeley, CA: Cooperative Extension. Irregular. Vol. 1, no. 1- 1983-

SB319.2.C2U72

Washington Counts. Pullman, WA: Cooperative Extension, Washington State University, College of Agriculture and Home Economics. Irregular. No. 1- 1991-

HB3525.W2C45



New Bibliographies

The bibliographies in the *Quick Bibliography* series are primarily computerized online as batch bibliographies emanating from searches performed by the NAL Public Services Division Staff in response to customer requests. Searches are selected for inclusion based on the currency of the topic, interest among clientele, and probable value to a larger audience. Since October 1988, all *QB's* include search strategies. Unless otherwise specified, citations are from AGRICOLA.

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Quick Bibliographies

Q.B.—92-50. Allelopathy: The Effects of Chemicals Produced by Plants, January 1988-April 1992. 224 citations; languages: none excluded. Prepared by Henry Gilbert. Reference and User Services Branch. June 1992. Updates Q.B. 90-46.

Q.B.—92—51. Ethical and Moral Issues Relating to Animals, January 1985-February 1992. 349 citations; languages: none excluded. Prepared by Janice C. Swanson. Animal Welfare Information Center. June 1992. Updates Q.B. 90-48.

Q.B.—92-52. Biotechnology: Risk Assessment, January 1986-May 1992. 178 citations in English. Prepared by Robert Warmbrodt and Lara Wiggert. Biotechnology Information Center. July 1992. Updates Q.B. 91-79.

Q.B.—92-53. Biotechnology: Legislation and Regulation, January 1988-May 1992. 187 citations in English. Prepared by Robert Warmbrodt and Lara Wiggert. Biotechnology Information Center. July 1992. Updates Q.B. 91-80.

Q.B.—92-54. Potential New Crop: Kenaf, Commercial Fiber & Pulp Source, January 1979-June 1992. 241 citations; languages: none excluded. Prepared by Jerry Rafats. Reference and User Services Branch. July 1992. Updates Q.B. 90-33.

Q.B.—92-55. Ag in the Classroom: Instructional Materials on Agricultural Education (K-12), January 1979-May 1992. 223 citations in English. Prepared by Patricia A. Krug. Reference and User Services Branch. July 1992. Updates Q.B. 89-98.

Special Reference Briefs

S.R.B.—92-12. The LD50 (Median Lethal Dose) and LC50 (Median Lethal Concentration) Toxicity Tests. Prepared by Michael D. Kreger. Animal Welfare Information Center. July 1992. Updates S.R.B. 90-12.

Animal Welfare Information Center Publication Series

A.W.I.C.—11 (Preliminary Report #1). Animal Welfare Legislation: Bills Submitted to the 102nd Congress, January 1992-June 1992. Prepared by Cynthia P. Smith. Animal Welfare Information Center. July 1992.

Rural Information Center Publication Series

R.I.C.P.S.—9. Rural Youth Employment. Compiled by Scott J. McKearney. Rural Information Center. December 1991.

R.I.C.P.S.—12. Promoting Tourism in Rural America. Compiled by Dorothy A. Heise. Rural Information Center. December 1991.

Miscellaneous

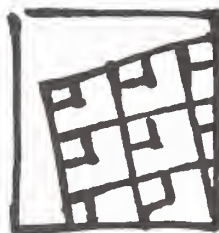
Bibliographic Series. Current Title Listing No. 6. Prepared by Rebecca Thompson. Public Services Division. July 1992.

Index to USDA Agricultural Information Bulletins, Numbers 1-649. Prepared by Ellen Kay Miller. D.C. Reference Center. June 1992.





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Animal Biotechnology. Vol. 1, 1990.

Computers and Biomedical Research. Vol. 22, 1989.

Journal of Immunological Methods. Vol. 128 (2), 1990.

Linear Algebra and Its Applications. Vol. 44, 1981.

Oilseeds. London, Satsouth, Ltd. Vol. 8 (1), 1991.

Surplus Publications

The National Agricultural Library will make available the following surplus publications to any interested organization that regularly sends free publications to NAL, including most Federal, land-grant, and agricultural research institutions as well as many others. Foreign institutions will need to provide a U.S. mailing address or make other special arrangements with U.S. sources for shipment of material. Listed titles may be requested up to six months following announcement.

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Agronomy Journal. Vols. 68-81, 1976-89.

Journal of Farm Economics. 1943-59.

Journal of the American Society for Horticultural Science. Vol. 110 (1-6), 1985.

Plant Disease. Vol. 76, 1992.

October 5: American Public Welfare Association Annual Conference. Buffalo, NY. Contact: 703-305-2062.

October 5-6: National Implementation Conference - Extension Service Initiative. Snowbird, UT. Contact: 202-720-8653.

October 5-9: Seventh International Workshop on In Vitro Toxicology. De Haan, Belgium. Contact: W. Sonck, 32-2-477.45.85.

October 6-8: National Poultry Waste Management Symposium. Birmingham, AL; Sheraton Civic Center Hotel. Contact: 205-734-3353.

October 6-9: Biobased Products Expo '92. St. Louis, MO; Hyatt Regency at Union Station. Contact: 1-800-826-3977 or 314-569-0333.

October 7: 1992 Meat Industry Research Conference. Orlando, FL. Contact: 202-720-7025.

October 8-11: American Meat Institute Annual Convention. Orlando, FL. Contact: 703-841-2400.

October 11-16: National Congress of American Indians Annual Convention. Arlington, VA; Doubletree Inn. Contact: 202-546-9404.

October 11-16: National Fisheries Institute Annual Convention. Palm Springs, CA. Contact: 703-524-8882.

October 14-16: International Symposium on Management Strategies for Exploited Fish Populations. Anchorage, AK. Contact: Brenda Baxter, 907-474-7086; FAX 907-474-6285; E-mail FNBRMI@ALASKA.

October 14-16: National Broiler Council Annual Conference. Washington, DC. Contact: 202-296-2622.

October 14-17: The U.S. Trout Farmer's Association Annual Meeting and Grade Show. Copper Mountain Resort, Colorado's Rocky Mountains. Contact: U.S. Trout Farmers Association, 304-876-6666; FAX: 304-876-0946.

October 15: National Meeting on Poultry Health and Processing. Ocean City, MD. Contact: 202-720-7025.

October 15-17: National Science Teachers Association Southwestern Area Convention. Fort Worth, TX. Contact: NSTA, 202-328-0974.

October 19: International Symposium on Soil & Water Conservation. Honolulu, HI. Contact: 202-720-4525.

October 22-24: American College of Toxicology. San Francisco, CA. Contact: Alexandra Ventura, 301-571-1840.

October 22-25: Nat'l Association of Meat Purveyors Annual Convention. Oak Brook, IL. Contact: 703-758-1900.

October 24-25: The Neurotrauma Society, 10th Annual Symposium. Anaheim, CA. Contact: Wendy Kidwell, 804-794-9459.

October 25-27: "Ecological Interactions and Biological Controls" Conference. Minneapolis, MN. Contact: Nancy Harvey, 405 Coffey Hall, 1420 Eckles Ave., University of Minnesota, St. Paul, MN 55108, 800-367-5363.

October 25-28: Southeastern Association of Fish and

Wildlife Agencies. Corpus Christi, TX. Contact: Barbara Gregg, 512-389-4859.

October 25-30: Society for Neuroscience. Anaheim, CA. Contact: 202-462-6688.

October 26-28: National Frozen Food Association Annual Convention. Las Vegas, NV. Contact: 717-657-8601.

October 26-30: Consultative Group on International Agricultural Research (CGIAR) Centers Week. Washington, DC. Contact: CGIAR, c/o World Bank, 1818 H Street, N.W., Washington, DC 20433.

October 26-30: Third Asian Fisheries Forum. Singapore. Contact: Local Organizing Committee, 65-2913238, FAX 65-2965384.

October 27-30: MATIC/GIA '92 Meat and Food Industry Trade Shows. Paris, France. Contact: 301-942-5857.

October 27-30: 3rd International Wildlife Ranching Symposium. Pretoria, South Africa. Contact: Agricultural Attache, 202-966-1650.

November 1-5: Animal Association for Laboratory Animal Science Annual Meeting. Anaheim, CA. Contact: 901-754-8620.

November 1-6: Annual Meeting of the American Society of Agronomy, the Crop Science Society of America, and the Soil Science Society of America. Minneapolis, MN. Contact: ASA/CSSA/SSSA, 677 South Segoe Road, Madison, WI 53711; 608-273-8080.

November 4: Massachusetts Society for Medical Research, Teacher Training Workshop, "People and Animals: United for Health." Session I. Waltham, MA. Contact: 617-891-4544.

November 5-8: American Indian Science and Engineering Society 14th Annual Conference. Arlington, VA; Hyatt Crystal City Hotel. Contact: 303-492-8658.

November 5: SCAW Seminar: Husbandry and Use of Agricultural Animals in Research. Anaheim, CA. Contact: SCAW, 301-654-6390.

November 6-8: American Medical Writers Association Annual Meeting. Houston, TX. Contact: 901-754-8620.

November 10-14: National Renderers Association Annual Meeting. Palm Desert, CA. Contact: 202-857-1136.

November 11-15: National Association of Biology Teachers National Convention. Denver, Co. Contact: Michelle Robbins, 703-471-1134.

November 14-19: American Association of Zoo Veterinarians Meeting. Oakland, CA. Contact: Julie Fazollah, 404-727-7428.

November 15-18: International Food Technology Expo & Conf. Hague, Netherlands. Contact: 312-782-8424.

November 15-19: National Indian Education Association 24th Annual Conference. Albuquerque, NM. Contact: 505-881-4584.

November 16-21: 9th International IFOAM Scientific Conference. Sao Paulo. Contact: General Secretariat, c/o Okoszentrum Imsbach, D-6695 Tholey-Theley, West Germany, Phone 49-6853-5190, FAX 49-6853-30110.

November 17: 7th Biennial Southern Silvicultural Research Conference. Mobile, AL. Contact: 202-720-7173.

November 18: Massachusetts Society for Medical Research, Teacher Training Workshop, "People and Animals: United for Health." Session II. Waltham, MA. Contact: 617-891-4544.

November 19: 3rd International Animal Nutrition Symposium. National Renderers Association, Inc. Lisbon, Portugal. Contact: Julie Brace-Maclean, 44(0)71 2872628.

November 19-21: National Science Teachers Association Eastern Area Convention. New York, NY. Contact: NSTA, 202-328-0974.

November 20-21: Third Annual Workshop on Commercial Aquaculture Using Recirculating Systems. Contact: LaDon Swann, 317-494-6264; FAX: 317-494-9347.

November 30-December 3: International Association of Fairs and Expositions (IAFE) 102nd Annual Convention and Trade Show. Las Vegas, NV; Bally's Grand Hotel. Contact: 417-862-5771.

December: SCAW Workshop: "The Human/Research Animal Relationship." Washington, DC. Contact: 301-654-6390 or Fax: 301-907-3993.

December 2-5: First International Fisheries Exhibition for Latin America. (ExpoPESCA '92). Santiago, Chile. Contact: MBC Fishing and Marine Publications; FAX: 07-18378187.

December 7-8: Document Delivery & Libraries Conference. Sponsored by Meckler Corporation. Philadelphia, PA; Wyndham Franklin Plaza Hotel. Contact: Registration, 800-635-5537; Program, 203-226-6967; Exhibits, 207-883-1223. (Combined exhibit with following conference.)

December 7-8: Internet & Libraries Conference. Sponsored by Meckler Corporation. Philadelphia, PA; Wyndham Franklin Plaza Hotel. Contact: Registration, 800-635-5537; Program, 203-226-6967; Exhibits, 207-883-1223. (Combined exhibit with preceding conference.)

December 9-12: Intertribal Agriculture Council's Annual Agricultural Conference. Las Vegas, NV; Bally's Resort. Contact: 202-720-6643.

December 10-12: National Science Teachers Association Southeastern Area Convention. Charlotte, NC. Contact: NSTA, 202-328-0974.

December 13-14: Alternative Energy Conference: Liquid Fuels from Renewable Resources. Nashville, TN. Contact: John Cundiff, VPI and USU, Agricultural Engineering Dept., Blacksburg, VA 24061.

December 13-15: ASAE Sixth International Drainage Symposium. Nashville, TN. Contact: ASAE, 616-429-0300.

December 14-15: Land Reclamation: Advances in Research and Technology. Nashville, TN. Contact: ASAE, 616-429-0300.

1993

January 6-10: Fish Farming Expo VI. New Orleans, LA. Contact: Bill Glasscock, 501-225-6102, or Hugh Purnell, 501-851-7500.

January 20-22: Southeastern Poultry and Egg Association International Convention & Expo. Atlanta, GA. Contact: 404-377-6465.

January 22-February 7: Southwestern Exposition & Livestock Show. Fort Worth, TX. Contact: 817-877-2400.

January 24-29: National Council of Farmer Cooperatives Annual Meeting. San Antonio, TX; Marriott Rivercenter. Contact: NCFC, 202-626-8700.



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Daniel Starr, Photographer.

[(301)-504-7937]

Organizers and planners of the exhibit **The Art of American Livestock Breeding** included (L-R) R. John Dawes, Exhibition Curator, Huntingdon Farm, PA; Carolyn Christman, Assistant Director, American Minor Breeds Conservancy (AMBC); Alan Fusonie, Head, Special Collections, NAL; Judith Ho, Special Collections, NAL; Donald E. Bixby, Executive Director, AMBC; and Cynthia Erhman, Office Manager, AMBC. See pages 13 thru 16 for stories and photos of minor breeds exhibits and related events.